

PC/ZA99/00005<sup>P 023</sup>

ZA99/5

Sertifikaat

REPUBLIEK VAN SUID-AFRIKA

Certificate

PATENTKANTOOR



16 APR 1999

PATENT OFFICE

DEPARTEMENT VAN HANDEL  
EN NYWERHEID

REPUBLIC OF SOUTH AFRICA

PCT

DEPARTMENT OF TRADE  
AND INDUSTRY

Hiermee word gesertifiseer dat  
This is to certify that

## PRIORITY DOCUMENT

SUBMITTED OR TRANSMITTED IN  
COMPLIANCE WITH RULE 17.1(a) OR (b)

- 1) South African Patent Application No. 98/2302 accompanied by a Provisional Specification was filed at the South African Patent Office on the 19th March 1998, in the name of **Pierre Hercules Nel** in respect of an invention entitled: "Device and Method and System for Data Distribution".
- 2) On 17th March 1999 an assignment of South African Patent Application No. 98/2302 from **Pierre Hercules Nel** to **Christiaan Frederik Du Toit Mostert** was recorded at the South African Patent Office.
- 3) The photocopy attached hereto is a true copy of the provisional specification and drawings filed with South African Patent Application No. 98/2302.

in te PRETORIA

in die Republiek van Suid-Afrika, hierdie  
in the Republic of South Africa, this

6th dag van  
day of

April 1999

  
Registrafeur van Patente  
Registrar of Patents

## APPLICATION FOR A PATENT AND ACKNOWLEDGEMENT OF F

[Section 30 (1) - Regulation 22]  
(See notes overleaf)

Revenue stamps & machine	1998-03-15
Official de	

REGISTERED PATENTS, DESIGNS, TRADE MARKS AND COPYRIGHT

R50

1998-03-15

Official de

The grant of a patent is hereby requested by the undermentioned applicant on the basis of the

(i)

Official application No.	
21	01
982302	

Applicant's or agent's reference

(ii)

71	Full name(s) of applicant(s)	AANSOEKER VERVANG Christiaan Frederik du Toit Mokot
----	------------------------------	---

(iii)

	Address(es) of applicant(s)	Heine Havocde Hel 17-3-99
--	-----------------------------	---------------------------

(iv)

54	Title of invention	Service + method and system for data distribution
----	--------------------	---

(v)

	The applicant claims priority as set out on the accompanying form P 2
--	---

(vi)

	This application is for a patent of addition to Patent Application No.
21	01

(vii)

	This application is a fresh application in terms of section 37 and based on Application No.
21	01

(viii)

	This application is accompanied by:
--	-------------------------------------

- |     |  |
|-----|--|
| 1.  | A single copy of a provisional or two copies of a complete specification of .....15.....pages. |
| 2.  | Drawings of .....3.....sheets.   |
| 3.  | Publication particulars and abstract (form P 8 in duplicate).                                  |
| 4.  | A copy of Figure.....of the drawings (if any) for the abstract.                                |
| 5.  | An assignment of invention.  |
| 6.  | Certified priority document(s) (state number).   |
| 7.  | Translation of the priority document(s).   |
| 8.  | An assignment of priority rights.  |
| 9.  | A copy of the form P 2 and the specification of S.A. Patent Application No. 21 01              |
| 10. | A declaration and power of attorney on form P 3.   |
| 11. | Request for ante-dating on form P 4.   |
| 12. | Request for classification on form P 9.  |
| 13. |  |

(ix)

74	Address for service:	D.M. Kitch Inc Gb
----	----------------------	-------------------

Dated this 15 day of March 1998

Signature of applicant(s) or agent

The duplicate will be returned to the applicant's address for service as proof of lodging but is not valid unless endorsed with official stamp.

REGISTERED PATENTS, DESIGNS, TRADE MARKS AND COPYRIGHT
Received
1998-03-15
Official date stamp
REGISTRAR VAN PATENTE, MODELS, HANDELSMERKE EN OUNREK
Registrar of Patents

Ref No:

FORM P5

REPUBLIC OF SOUTH AFRICA  
Patents Act, 1978

PROVISIONAL SPECIFICATION  
(Section 30 (1) - Regulation 27)

21	01	OFFICIAL APPLICATION NO
----	----	-------------------------

982302

22	LODGING DATE
----	--------------

1998-03-19

71	FULL NAME(S) OF APPLICANT(S)
----	------------------------------

AANSOEKERS VERVANG  
APPLICANTS SUBSTITUTED

*Christiaan Frederik du Toit Maskot*  
17-3-99

72	FULL NAME(S) OF INVENTOR(S)
----	-----------------------------

*Reinoud Kodel Wit*

54	TITLE OF INVENTION
----	--------------------

*Seun + metal air system for dust collection*

## Background of the Invention

### *Field of the Invention*

This Invention relates to a device and method and system for the remote distribution of data / information between a broadcaster / transmitter and a receiver at user base.

With the advent of PC's and later on the Internet the world has become an interactive community in the sharing and distributing of data. Although the WWW and its global connection provides access to nearly all the knowledge accumulated in the world there exist a need for the distribution of data / information such as news papers, media events, shareware ect on a daily basis and downloading through the net is a time consuming and an expensive effort. Many PC's are equipped with a radio card and a radio card is a relatively cheap item which fits into a PC slot thereby allowing users to listen to radio broadcasts in a specific region or country. By using this device / card for the reception of

### *Objectives of the invention*

This invention aims to provide users / PC owners with a Radio card / RF receiver communicatable with memory and/or display means to allow for example news, media clips, shareware, Beta version software , financial and commercial information i.e. stock prices naming but a few to be downloaded or broadcasted over normal radio frequency and received and saved on for example hard disk. Now users have news, media, shareware distributed to their PC without having to link to a service provider and paying



absorbent telephone costs. Users may browse through these downloads on their PC and save what they like or need and delete the rest. Alternatively the invention may be used to sell software with an encoded file or key that allows decoding/deciphering of the data. Like radio users need not necessarily pay to receive the data but distributors / advertisers and the like may sponsor and pay for the data. The data / information transmission may be in compressed format such as a zip file and uncompressed at user terminal / PC or the like. The radio card may furthermore have software and/or firmware / EEPROM that may contain decompression software so that users may access and use the downloaded or received data / information.

123


## **Summary of the Invention**

According to the first aspect of the invention a device for the reception of at least one rf signal at, at least one frequency / bandwidth and/or channel said device comprising an RF receiver and/or receiver means that may include a PC card for example linkable with an ISA or PCI slot or the like. Furthermore the device may be a separate unit integrated with a PC through a port i.e. RS232 or parallel port or any other medium allowing the device to communicated with the PC.

According to the second aspect of the invention a method and system for the remote distribution of data / information including the steps of providing at least one remote receiver at user base and providing at least one broadcasting source transmitting a signal receivable by said remote receiver.

According to the third aspect of the invention the receiving of said signal and saving of said reception on memory means and for the downloading of data / information through the RF communication channel for access by said user through a PC for example

According to the fourth aspect of the invention a method / system for starting and/or stopping said recording / saving to memory means including the steps of including a code / signal / in other channels / frequency and/or the broadcast channel / frequency to



initialize said recording / saving and for stopping / terminating said recoding.

According to the fifth aspect of the invention a method / system for the decoding of said data / signal / information originating at said broadcaster to allow individual or group decoding of said data.

According to the sixth aspect of the invention a method / system for distributing of data / information including the steps of compressing information / data and transmitting it to said user base where it is decompressed / uncompressed to be usable on user PC / terminal or the like.


5

According to the seventh aspect of the invention a method of communication from said transmitter to said receiver that may include communication protocols identifying execution ( *i.e. start and stop of saving data / information* ), a data layer ( *data / information that is downloaded* ), a structure layer ( *i.e. creating directories and sorting files* ), a presentation layer and software layer naming but a few

According to the eight aspect of the invention a receiver with ID means i.e. an EEPROM ID or the like said ID being unique to a said card/ receivers. or to a group of cards / receivers

According to the ninth aspect of the invention a receiver ( *radio card / rf receiver device* ) having a digital and/or software switch to activate / deactivate reception and/or other functions that may be done according to receiver / card ID.

According to the tenth aspect of the invention a method and system for the remote distribution of individual data / information ( *i.e. E-mail* ) distributed according to card / receiver ID and associated user ID for the distribution of personal information. ( *for example if the E-mail ID matches the Card / Receiver ID associated with a person; the information / data is saved / decoded or the like so that users may access the information / data.* )






## **Description of the preferred embodiment**

In a certain area a broadcaster may broadcast over a certain frequency data / information to user with the RF receivers in the form of a single or multiple files as is or in compressed file format such as ARJ or ZIP to allow users to uncompress the information / data to allow viewing and use of said data / information. Downloads may include for example newspapers in file format, commercial news, financial information i.e. stock exchange prices, shareware including trial versions of software packages, games and the like. Advertisements and other information may also be sent thereby eliminating printing and distribution costs. Advertisements may be directed to users within a certain are for example advertisements for local shops and properties for example. The radio card / RF receiver may also be used as a normal radio receiver. If the broadcast is global for example through satellite, world news may be broadcasted by CNN , NBC ect but it will be in file / data format and viewed on PC's / terminals and the like.

## **Conclusion**

Internet offers an attractive communication medium over telephone lines but the cost of communication is quite high. This invention offers users the opportunity to receive information / data for free including news, sports update, shareware and the like for free by using the data / Rf card according to the invention and receiving this information via Rf broadcast.



## *Description of embodiments*

**Fig 1** relates to the RF / Radio card as communicable with PC / Terminal hardware such as hard disks / CPU's or the like. A card (2) with reception means (4) may be inserted into PC slot (3) i.e. ISA, PCI or the like on a motherboard (1).

**FIG 2** relates to the invention / device in a box or as a separate device (5) with communication means to the PC (6) through a parallel or Serial cable via Com, Rs232 and other ports.

**FIG 3** relates to a geographical areas broadcast with transmitters (1) linked to a country wide broadcast (2) to allow transmission of data / information to users (4). Also a regional broadcaster (3) may transit only to users within said region

**FIG 4** relates to world wide or country wide broadcast from satellite (1) receiving from a certain transmitter (3) for distribution (4) over the world or to a certain country via said satellite (2).

**FIG 5** relates to the way the data / information may be broadcasted by a transmitter (1) of a broadcaster via analog (2) or digital (3) RF signals to a user (4) with receiving means. The transmission may include data / information (5) that may be compressed or coded / encoded (7). Just as radio channels have various broadcast frequency the data /

information broadcasts may vary over various frequency (8).

Fig 6 related to the various uses of the invention and examples of presentation.

1/3 9

FIG 1

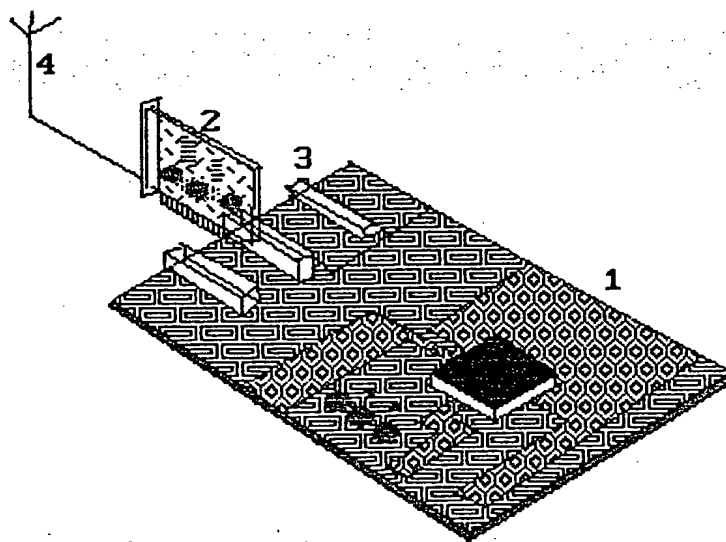


FIG 2

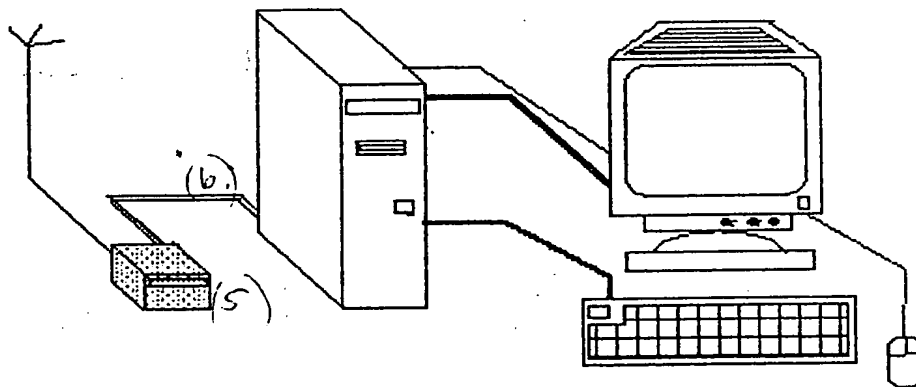


FIG 3

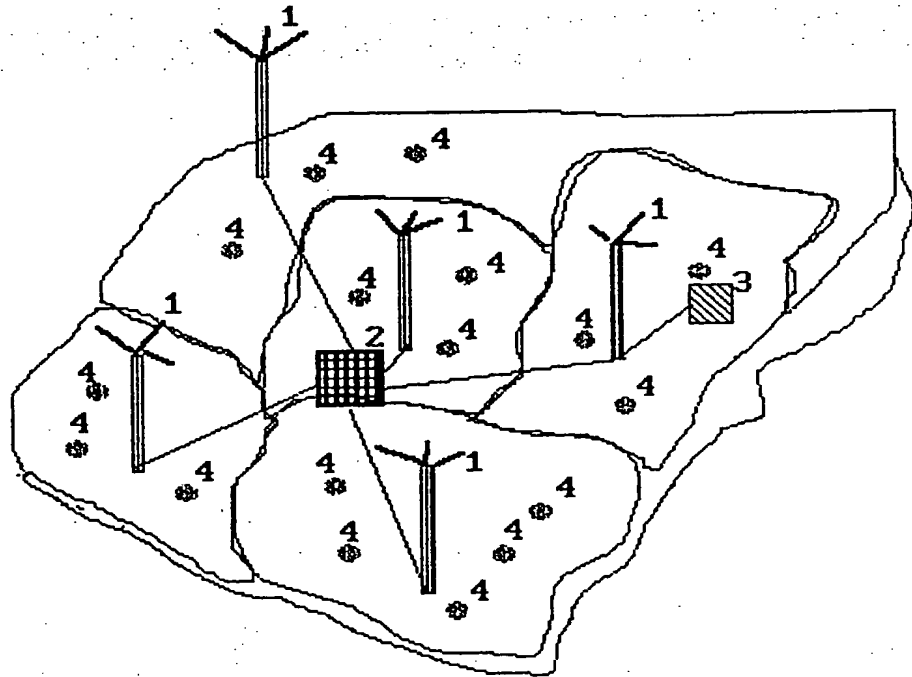


FIG 4

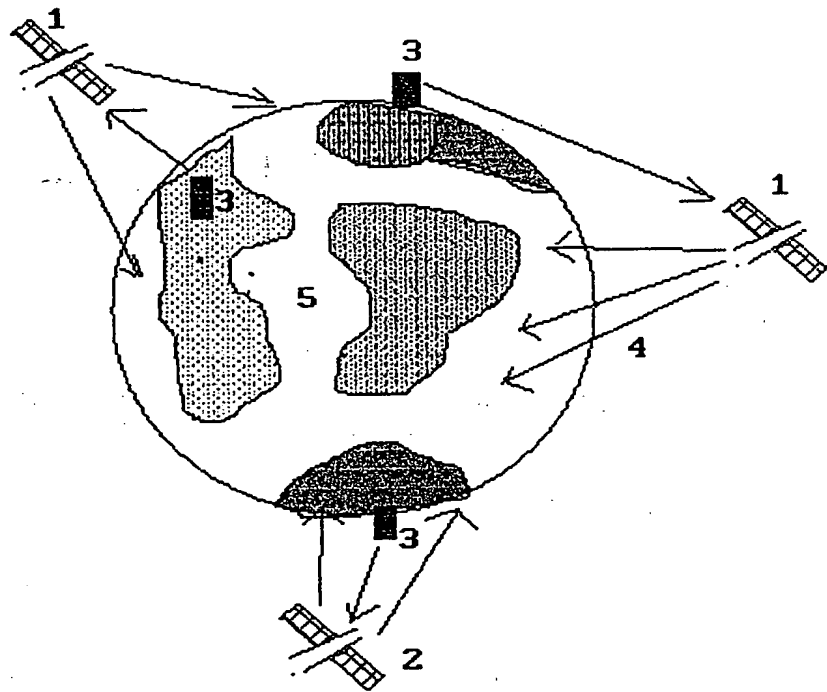


FIG 5

Broadcaster

1

2

3

5 Data/Info

6 Code

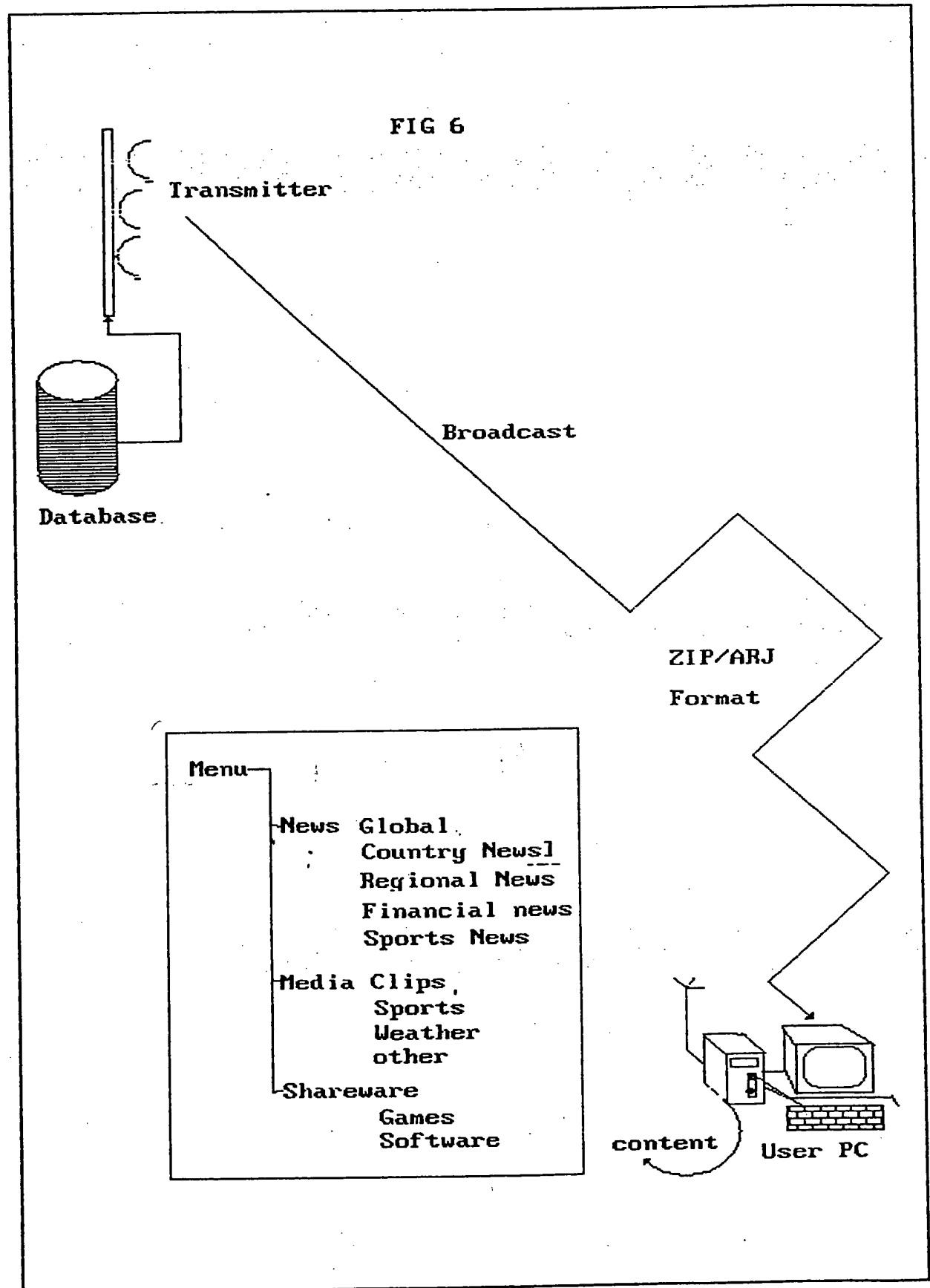
7 Channel

8 Frequency

4

A handwritten signature in black ink, appearing to be "Th".

FIG 6



**THIS PAGE BLANK (USPTO)**